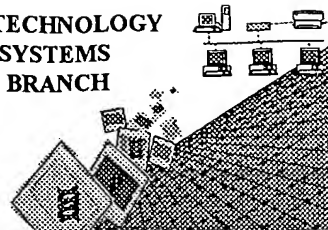


WA

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/069,425
Source: PCT/10
Date Processed by STIC: 10/30/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
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3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
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Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



PCT

RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/069,425

TIME: 14:53:10

Input Set : A:\BC1019 US PCT SEQ.txt

Output Set: N:\CRF4\10302002\J069425.raw

3 <110> APPLICANT: E.I. du Pont de Nemours and Company
 5 <120> TITLE OF INVENTION: cis-Prenyltransferases from Plants
 7 <130> FILE REFERENCE: BC1019 PCT
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/069,425
 C--> 10 <141> CURRENT FILING DATE: 2002-07-30
 12 <150> PRIOR APPLICATION NUMBER: 60/155,046
 13 <151> PRIOR FILING DATE: 1999-09-21
 15 <160> NUMBER OF SEQ ID NOS: 37
 17 <170> SOFTWARE: Microsoft Office 97
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1388
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Dimorphotheca
 24 <400> SEQUENCE: 1

6-7
 JF

Does Not Comply
 Corrected Diskette Needed

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 26 agctcactca ttaggcaccg caggctttac actttatgct tccggctcgt atgttgtgtg 120
 27 gaattgtgag cggataacaa tttcacacag gaaacagcta tgaccatgat tacgccaagc 180
 28 gcgcaattaa ccctcactaa agggaacaaa aggctggagc tccaccgcgg tggcgccgcg 240
 29 tctagaacta gtggatcccc cgggctgcag gaattcggca cgagcttaaa taatgcttaa 300
 30 tcttcccctc tacttaccac aatatccttg ttatttcccg gcctctctct ccaccaacca 360
 31 ccaccgtggg ttttatgtat tcaaccaatc agacaccact ggaggtggaa ttaattcgct 420
 32 ggaggaacgc attactccag caggactcaa gcacgagtta atgccaagc atgtggcagt 480
 33 gatcatggat ggaaacagga gatgggctcg atcacgtggg ttaatgccgg atgctggtta 540
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 37 gggatatccag ctttcgggta tcggagacac atctaagctt ccaaaatcgg taaaacggat 780
 38 cattacatat gctgaaaaca tcacgaagaa caactcaca ctcaatcttg ttgtagcaat 840
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 41 aaattgtatt ctttttccac accctgatct actaattcgg actagtggg agcttagagt 1020
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 44 acgttatggt ggatgagatt cttaaacaac cctgtagagt tgcataatcat attgactttt 1200
 45 gatatgtttc aatactatct atattattat tatgttgtaa tatcgtaata gaacatgaat 1260
 46 ttaaataggc aatagagcat gccacctaata atgtctagtt atgagattct aaagacgtaa 1320
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51 <210> SEQ ID NO: 2
 52 <211> LENGTH: 287
 53 <212> TYPE: PRT
 54 <213> ORGANISM: Dimorphotheca
 56 <400> SEQUENCE: 2

RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/069,425

TIME: 14:53:10

Input Set : A:\BC1019 US PCT SEQ.txt

Output Set: N:\CRF4\10302002\J069425.raw

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60 Ala Ser Leu Ser Thr Asn His His Arg Gly Leu Tyr Val Phe Asn Gln
61           20           25           30
63 Ser Asp Thr Thr Gly Gly Gly Ile Asn Ser Leu Glu Glu Arg Ile Thr
64           35           40           45
66 Pro Ala Gly Leu Lys His Glu Leu Met Pro Lys His Val Ala Val Ile
67           50           55           60
69 Met Asp Gly Asn Arg Arg Trp Ala Arg Ser Arg Gly Leu Met Pro Asp
70   65           70           75           80
72 Ala Gly Tyr Met Glu Gly Ala Arg Ser Leu Lys Val Met Val Glu Leu
73           85           90           95
75 Cys Arg Lys Trp Gly Ile Gln Val Leu Thr Val Phe Ala Phe Ser Ala
76           100          105          110
78 Asp Asn Trp Leu Arg Pro Lys Val Glu Val Asp Phe Leu Met Gly Leu
79           115          120          125
81 Ile Glu Ser Val Leu Lys Asp Glu Val Val His Met Ile Lys Glu Gly
82           130          135          140
84 Ile Gln Leu Ser Val Ile Gly Asp Thr Ser Lys Leu Pro Lys Ser Val
85 145           150           155           160
87 Lys Arg Ile Ile Thr Tyr Ala Glu Asn Ile Thr Lys Asn Asn Ser Gln
88           165          170          175
90 Leu Asn Leu Val Val Ala Ile Asn Tyr Ser Gly Lys Tyr Asp Ile Val
91           180          185          190
93 Gln Ala Cys Gln Ser Ile Ala Leu Lys Val Lys Asp Gly Val Ile Gln
94           195          200          205
96 Pro Glu Glu Ile Asn Glu Phe Thr Ile Glu Asn Glu Leu Gly Thr Asn
97           210          215          220
99 Cys Ile Pro Phe Pro His Pro Asp Leu Leu Ile Arg Thr Ser Gly Glu
100 225           230           235           240
102 Leu Arg Val Ser Asn Phe Phe Leu Trp Gln Leu Ala Tyr Thr Glu Leu
103           245           250           255
105 Tyr Phe Ser Glu Thr Leu Trp Pro Asp Phe Gly Glu Asp Glu Leu Leu
106           260           265           270
108 His Ala Leu Asn Thr Phe Gln His Arg Arg Arg Arg Tyr Gly Gly
109           275           280           285
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114 <212> TYPE: DNA
115 <213> ORGANISM: Calendula officinalis
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120 ttacaaatat atcaacggtt ttgagcaatg aaaataccaa actgaaaacc aaaaaagaa 180
121 gaagtagaat taccaggggg tctcgaagaa gaactaatgc caaacacgt tgcattcata 240
122 atggatggaa accgtcgatg ggcggtggaa aaaggttggt ctccaatgac gggcatagt 300
123 gccatgagaa agacgcttca atctctcctt tttcgatggt ccaaattcaa aatcaaagcg 360
124 gtatcgattt atgcattttc taccgaaaat tggactcgcc cgaaggaaga agttgatttc 420
125 ctaatggaga tgtatgaaga tttattgagg acagatgctg aggagctctt aagtcttggt 480

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RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/069,425

TIME: 14:53:10

Input Set : A:\BC1019 US PCT SEQ.txt

Output Set: N:\CRF4\10302002\J069425.raw

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126 tgtcagagtaa gcataatggg gaaaaagacc aaccttccga aatcactaca aaagttatgc 540
127 atcgaaatag aagaaaaatc aagagccaat tcaggaaccc atgttaacta tgcactcaac 600
128 tacagtggaa aatacgacat aatcgaagct tgtaaaagcg tcgctacaaa agtcaaggat 660
129 ggtgttatta ttccaaaaca gatcgacgaa aaatatattca aacaagaact cggtagcaaa 720
130 atgatcgatt ttcttaccac tgacctagtt atacgtacaa gcgggggaaat taggcttagt 780
131 aatttcatgc tatggcagat ggcgtatagc gagctttatt tcacggataa atactttccg 840
132 gattttgggg aaaatgatct tatcgaggct ttacttgcac ttcaaaaagt gcgtaaatgt 900
133 taataacttg ttgtgggttaa gacgagtgtg gtagaatata aataaatgac tcgtttcggc 960
134 ggcgttgtgt atgccacatt atatgtctta gtgtctatca gaattcgaat ttgatttata 1020
135 gtcgcttgag atatgaaaac ttattatatt tgttcgatca aaaaaaaaaa aaaaaaaaaa 1080
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139 <210> SEQ ID NO: 4

140 <211> LENGTH: 228

141 <212> TYPE: PRT

142 <213> ORGANISM: Calendula officinalis

144 <400> SEQUENCE: 4

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148 Val Glu Lys Gly Trp Ser Pro Met Thr Gly His Ser Ala Met Arg Lys
149           20           25           30
151 Thr Leu Gln Ser Leu Leu Phe Arg Cys Ser Lys Phe Lys Ile Lys Ala
152           35           40           45
154 Val Ser Ile Tyr Ala Phe Ser Thr Glu Asn Trp Thr Arg Pro Lys Glu
155           50           55           60
157 Glu Val Asp Phe Leu Met Glu Met Tyr Glu Asp Leu Leu Arg Thr Asp
158   65           70           75           80
160 Ala Glu Glu Leu Leu Ser Leu Gly Cys Arg Val Ser Ile Met Gly Lys
161           85           90           95
163 Lys Thr Asn Leu Pro Lys Ser Leu Gln Lys Leu Cys Ile Glu Ile Glu
164           100          105          110
166 Glu Lys Ser Arg Ala Asn Ser Gly Thr His Val Asn Tyr Ala Leu Asn
167           115          120          125
169 Tyr Ser Gly Lys Tyr Asp Ile Ile Glu Ala Cys Lys Ser Val Ala Thr
170           130          135          140
172 Lys Val Lys Asp Gly Val Ile Ile Pro Lys Gln Ile Asp Glu Lys Tyr
173 145           150          155          160
175 Phe Lys Gln Glu Leu Gly Thr Lys Met Ile Asp Phe Pro Tyr Pro Asp
176           165          170          175
178 Leu Val Ile Arg Thr Ser Gly Glu Ile Arg Leu Ser Asn Phe Met Leu
179           180          185          190
181 Trp Gln Met Ala Tyr Ser Glu Leu Tyr Phe Thr Asp Lys Tyr Phe Pro
182           195          200          205
184 Asp Phe Gly Glu Asn Asp Leu Ile Glu Ala Leu Leu Ala Phe Gln Lys
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187 Val Arg Lys Cys
188 225
190 <210> SEQ ID NO: 5
191 <211> LENGTH: 1071
192 <212> TYPE: DNA

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RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/069,425

TIME: 14:53:10

Input Set : A:\BC1019 US PCT SEQ.txt

Output Set: N:\CRF4\10302002\J069425.raw

193 <213> ORGANISM: Hevea brasiliensis

195 <400> SEQUENCE: 5

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198 taagtcagtg atttaaggaa aatggaatta tacaacgggtg agaggccaag tgtgttcaga 180
199 cttttaggga agtatatgag aaaagggtta tatagcatcc taaccagggtg tcccatccct 240
200 actcatattg cttcatattt ggatggaaac aggaggtttg ctaagaagca taaactgcca 300
201 gaaggaggtg gtcataaggc tggattttta gctcttctga acgtactaac ttattgctat 360
202 gagttaggag tgaaatatgc gactatctat gccttttagca tcgataattt tcgaaggaaa 420
203 cctcatgagg ttcatgtacgt aatggatcta atgctggaga agattgaagg gatgatcatg 480
204 gaagaaagta tcatcaatgc atatgatatt tgcgtacgtt ttgtgggtaa cctgaagctt 540
205 ttaagtgagc ccgtcaagac cgcagcagat aagattatga gggctactgc caacaattcc 600
206 aaatgtgtgc ttctcattgc tgtatgctat acttcaactg atgagatcgt gcatgctgtt 660
207 gaagaatcct ctgaattgaa ctccaatgaa gtttgtaaca atcaagaatt ggaggaggca 720
208 aatgcaactg gaagcagtac tgtgattcaa actgagaaca tggagtcgta ttctggaata 780
209 aaactttagt accttgagaa aaacacctac ataaatcctt atcctgatgt tctgattcga 840
210 acttctgggg agaccgtctt gagcaactac ttactttggc agactactaa ttgcatactg 900
211 tattctcctt atgcaactgt gccagagatt ggtcttcgac acgtgggtgtg gtcagtaatt 960
212 aacttccaac gtcattattc ttacttggag aaacataagg aatacttaaa ataatttggt 1020
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215 <210> SEQ ID NO: 6

216 <211> LENGTH: 290

217 <212> TYPE: PRT

218 <213> ORGANISM: Hevea brasiliensis

220 <400> SEQUENCE: 6

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225 20 25 30
227 Pro Thr His Ile Ala Phe Ile Leu Asp Gly Asn Arg Arg Phe Ala Lys
228 35 40 45
230 Lys His Lys Leu Pro Glu Gly Gly Gly His Lys Ala Gly Phe Leu Ala
231 50 55 60
233 Leu Leu Asn Val Leu Thr Tyr Cys Tyr Glu Leu Gly Val Lys Tyr Ala
234 65 70 75 80
236 Thr Ile Tyr Ala Phe Ser Ile Asp Asn Phe Arg Arg Lys Pro His Glu
237 85 90 95
239 Val Gln Tyr Val Met Asp Leu Met Leu Glu Lys Ile Glu Gly Met Ile
240 100 105 110
242 Met Glu Glu Ser Ile Ile Asn Ala Tyr Asp Ile Cys Val Arg Phe Val
243 115 120 125
245 Gly Asn Leu Lys Leu Leu Ser Glu Pro Val Lys Thr Ala Ala Asp Lys
246 130 135 140
248 Ile Met Arg Ala Thr Ala Asn Asn Ser Lys Cys Val Leu Leu Ile Ala
249 145 150 155 160
251 Val Cys Tyr Thr Ser Thr Asp Glu Ile Val His Ala Val Glu Glu Ser
252 165 170 175
254 Ser Glu Leu Asn Ser Asn Glu Val Cys Asn Asn Gln Glu Leu Glu Glu
255 180 185 190

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RAW SEQUENCE LISTING

DATE: 10/30/2002

PATENT APPLICATION: US/10/069,425

TIME: 14:53:10

Input Set : A:\BC1019 US PCT SEQ.txt

Output Set: N:\CRF4\10302002\J069425.raw

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260 Ser Tyr Ser Gly Ile Lys Leu Val Asp Leu Glu Lys Asn Thr Tyr Ile
261      210      215      220
263 Asn Pro Tyr Pro Asp Val Leu Ile Arg Thr Ser Gly Glu Thr Arg Leu
264 225      230      235      240
266 Ser Asn Tyr Leu Leu Trp Gln Thr Thr Asn Cys Ile Leu Tyr Ser Pro
267      245      250      255
269 Tyr Ala Leu Trp Pro Glu Ile Gly Leu Arg His Val Val Trp Ser Val
270      260      265      270
272 Ile Asn Phe Gln Arg His Tyr Ser Tyr Leu Glu Lys His Lys Glu Tyr
273      275      280      285
275 Leu Lys
276      290
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279 <211> LENGTH: 1000
280 <212> TYPE: DNA
281 <213> ORGANISM: Hevea brasiliensis
283 <400> SEQUENCE: 7
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286 tccctactca tattgccttc atattggatg gaaacaggag gtttgctaag aagcataaac 180
287 tgccagaagg aggtggatcat aaggctggat ttttagctct tctgaacgta ctaacttatt 240
288 gctatgagtt aggagtgaag tatgcgacta tctatgcctt tagcatcgat aattttcgaa 300
289 ggaaacctca tgaggttcag tacgtaatgg atctaattgct ggagaagatt gaagggatga 360
290 tcatggaaga aagtatcatc aatgcatatg atatttgcgt acgttttgtg ggtaacctga 420
291 agcttttaag tgagccagtc aagaccgcag cagataagat tatgagggct actgccaaca 480
292 attccaaatg tgtgcttctc attgctgtat gctatacttc aactgatgag atcgtgcatg 540
293 ctgttgaaga atcctctgaa ttgaactcca atgaagtttg taacaatcaa gaattggagg 600
294 aggcaaatgc aactggaagc agtactgtga ttcaaaactga gaacatggag tcgtattctg 660
295 gaataaaaact tgtagacctt gagaaaaaca cctacataaa tccttatcct gatgttctga 720
296 ttcgaacttc tggggagacc cgtctgagca actacttact ttggcagact actaattgca 780
297 tactgtattc tccttatgca ctgtggccag agattggtct tcgacacgtg gtgtgggtcag 840
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303 <211> LENGTH: 290
304 <212> TYPE: PRT
305 <213> ORGANISM: Hevea brasiliensis
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312      20      25      30
314 Pro Thr His Ile Ala Phe Ile Leu Asp Gly Asn Arg Arg Phe Ala Lys
315      35      40      45
317 Lys His Lys Leu Pro Glu Gly Gly Gly His Lys Ala Gly Phe Leu Ala
318      50      55      60

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/30/2002
PATENT APPLICATION: US/10/069,425 TIME: 14:53:11

Input Set : A:\BC1019 US PCT SEQ.txt
Output Set: N:\CRF4\10302002\J069425.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:21; Xaa Pos. 2,3,8,10
Seq#:22; Xaa Pos. 3,7,10,12,20,21,23

10/069,425 1

<210> 25
<211> 861
<212> DNA
<213> Saccharomyces cerevisiae
<300>
<308> AB013497
<400> SEQUENCE: 25

MANDATORY

> <309> insert this numeric identifier
and
response
wherever
<308>
has a
response.

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gttcgggttg ctgtggaaac tacaaagaac aacaaaaggg ccacgttaaa tatctgcttt 480
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aaagaaaaaa agttgaatta a 861

same error in sequence 27

VERIFICATION SUMMARY

DATE: 10/30/2002

PATENT APPLICATION: US/10/069,425

TIME: 14:53:11

Input Set : A:\BC1019 US PCT SEQ.txt

Output Set: N:\CRF4\10302002\J069425.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:16
L:1064 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:25
L:1149 M:256 W: Invalid Numeric Header Field, Identifier <309> Expected, SEQ:27